

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)**P-TOLUENESULPHONIC ACID LR (MONOHYDRATE) (FOR SYNTHESIS)****1 - Chemical Product**

MSDS Name:p-Toluenesulfonic acid monohydrate

Synonym:Benzenesulfonic acid, 4-methyl-, monohydrate; Toluene, 4-sulfonic acid, monohydrat

Cas NO: 6192-52-5

Product Coad: T0208105000

Molecular Formula: C7H8O3S.H2O

Molecular Weight: 172.1142

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
6192-52-5	p-Toluenesulfonic acid monhydrate	99	unlisted

3 - HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Irritating to eyes, respiratory system and skin.Hygroscopic (absorbs moisture from the air).The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye:May cause irreversible eye injury. Causes eye irritation and possible burns.

Skin:Causes skin irritation and possible burns.

Ingestion:Causes digestive tract irritation with possible burns.

Inhalation:May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. May cause burns to the respiratory tract.

Chronic:No information found.

4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Destroy contaminated shoes.

Ingestion:Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician:

5 - FIRE FIGHTING MEASURES

General Information:Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Containers may explode in the heat of a fire. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media:In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use extinguishing media most appropriate for the surrounding fire. Cool containers with flooding quantities of water until well after fire is out.

6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.Provide ventilation.

7 - HANDLING and STORAGE

Handling:Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed.Do not ingest or inhale. Use only in a chemical fume hood. Discard contaminated shoes.Storage:Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store near alkaline substances. Store protected from moisture.

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8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
 Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
 Skin: Wear appropriate gloves to prevent skin exposure.
 Clothing: Wear appropriate protective clothing to prevent skin exposure.
 Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystals
 Color: white
 Odor: none reported
 pH: Not applicable.
 Vapor Pressure: Not applicable.
 Viscosity: Not available.
 Boiling Point: 140 deg C @ 27 mmHg
 Freezing/Melting Point: 103 deg C
 Autoignition Temperature: Not applicable.
 Flash Point: 103 deg C (217.40 deg F)
 Explosion Limits, lower: Not available.
 Explosion Limits, upper: Not available.
 Decomposition Temperature: Not available.
 Solubility in water: Soluble.
 Specific Gravity/Density: Not available.
 Molecular Formula: C7H8O3S.H2O
 Molecular Weight: 172.1142

10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
 Conditions to Avoid: Incompatible materials, dust generation, moisture, excess heat, exposure to moist air or water.
 Incompatibilities with Other Materials: Moisture.
 Hazardous Decomposition Products: Carbon monoxide, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide, sodium oxide.
 Hazardous Polymerization: Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#:
 CAS# 6192-52-5: DB7164000 LD50/LC50:
 CAS# 6192-52-5: Oral, mouse: LD50 = 1683 mg/kg; Oral, rat: LD50 = 2570 mg/kg.
 Carcinogenicity:
 p-Toluenesulfonic acid monhydrate - Not listed by ACGIH, IARC, or NTP.
 See actual entry in RTECS for complete information.

12 - ECOLOGICAL INFORMATION

13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

14 - TRANSPORT INFORMATION

IATA
 Shipping Name: ARYLSULPHONIC ACIDS, SOLID
 Hazard Class: 8
 UN Number: 2585
 Packing Group: III
 IMO
 Shipping Name: ARYLSULPHONIC ACIDS, SOLID
 Hazard Class: 8

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UN Number: 2585

Packing Group: III
RID/ADR
Shipping Name: ARYLSULPHONIC ACIDS, SOLID
Hazard Class: 8
UN Number: 2585
Packing group: III

15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Xi
Risk Phrases:
R 36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 37 Wear suitable gloves.
WGK (Water Danger/Protection)
CAS# 6192-52-5: 1
United Kingdom Occupational Exposure Limits
United Kingdom Maximum Exposure Limits
Canada
None of the chemicals in this product are listed on the DSL/NDSL list.
CAS# 6192-52-5 is not listed on Canada's Ingredient Disclosure List.
Exposure Limits
US FEDERAL
TSCA
CAS# 6192-52-5 is not on the TSCA Inventory because it is a hydrate.
It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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